

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087162.D
 Acq On : 25 Jun 2025 08:59
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

06/25/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Jun 25 10:38:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:38:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.824	128	35930	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	205072	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	186292	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	86000	34.837	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	116.133%#
60) 4-Bromofluorobenzene	12.847	95	81752	27.951	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.167%
63) Toluene-d8	10.565	98	258286	30.207	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	11802	4.836	ug/l	96
3) Chloromethane	2.401	50	12062	3.834	ug/l	94
4) Vinyl Chloride	2.554	62	12853	4.439	ug/l	96
5) Bromomethane	2.995	94	7218	4.705	ug/l	91
6) Chloroethane	3.153	64	6828	3.856	ug/l #	84
7) Trichlorofluoromethane	3.524	101	15836	4.670	ug/l	96
8) Diethyl Ether	3.983	74	7465	5.277	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.395	101	11626	5.594	ug/l	97
10) 1,1-Dichloroethene	4.365	96	11558	5.455	ug/l	97
11) Methyl Iodide	4.618	142	6687	2.677	ug/l	96
12) Methyl Acetate	5.047	43	16869	7.169	ug/l	100
13) Acrolein	4.200	56	11876	48.853	ug/l	97
14) Acrylonitrile	5.742	53	39359	35.942	ug/l	98
15) Acetone	4.459	58	12676	45.718	ug/l	78
16) Carbon Disulfide	4.742	76	36612	5.919	ug/l	98
17) Allyl chloride	5.047	41	18516	5.882	ug/l	91
18) Methylene Chloride	5.295	84	14009	5.693	ug/l	95
19) trans-1,2-Dichloroethene	5.806	96	13122	5.918	ug/l	93
20) Diisopropyl ether	6.683	45	37574	5.420	ug/l	95
21) 1,1-Dichloroethane	6.583	63	25040	5.985	ug/l	99
22) cis-1,2-Dichloroethene	7.500	96	13914	5.181	ug/l	96
23) tert-Butyl Alcohol	5.542	59	14840m	42.200	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	38602	5.528	ug/l	98
25) Chloroform	7.977	83	23358	5.704	ug/l	99
26) Cyclohexane	8.259	56	18712	5.167	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	16196	5.372	ug/l	99
30) 2-Butanone	7.494	43	49880	37.757	ug/l	100
31) 2,2-Dichloropropane	7.500	77	19968	5.610	ug/l	96
32) 1,1,1-Trichloroethane	8.183	97	19246	5.506	ug/l	97
33) Carbon Tetrachloride	8.365	117	16865m	5.645	ug/l	
34) Benzene	8.612	78	53867	5.491	ug/l #	91
35) Methacrylonitrile	7.794	41	10743m	7.079	ug/l	
36) 1,2-Dichloroethane	8.677	62	17661	6.143	ug/l	99
37) Trichloroethene	9.359	130	12692	4.664	ug/l	85
38) Methylcyclohexane	9.600	83	18613	5.564	ug/l	97
39) 1,2-Dichloropropane	9.624	63	13584	5.751	ug/l	94
40) Dibromomethane	9.712	93	9171	5.937	ug/l	96
41) Bromodichloromethane	9.888	83	18357	5.677	ug/l	99
42) Vinyl Acetate	6.618	43	172005	44.667	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	15251m	5.642	ug/l	
44) Isopropyl Acetate	8.694	43	32041	6.909	ug/l	98
45) 1,4-Dioxane	9.706	88	3765	91.346	ug/l	85
46) Methyl methacrylate	9.682	41	14340	6.706	ug/l	88
47) n-amyl Acetate	12.712	43	18265m	4.906	ug/l	
48) t-1,3-Dichloropropene	10.841	75	18916	5.467	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	21045	5.529	ug/l	92
50) 1,1,2-Trichloroethane	11.024	97	13266	6.097	ug/l	90
51) Ethyl methacrylate	10.888	69	14365m	4.077	ug/l	
52) 1,3-Dichloropropane	11.165	76	21815	5.650	ug/l	100
53) Dibromochloromethane	11.359	129	12745	5.184	ug/l	98
54) 1,2-Dibromoethane	11.471	107	13009	5.849	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	50795	30.031	ug/l	99
56) Bromoform	12.576	173	8824	5.696	ug/l #	93
58) 4-Methyl-2-Pentanone	10.447	43	86443	31.623	ug/l	99
59) 2-Hexanone	11.224	43	47317m	24.166	ug/l	
61) Tetrachloroethene	11.100	164	10375	3.313	ug/l	91
62) Toluene	10.629	91	57093	5.442	ug/l	99
64) Chlorobenzene	11.894	112	35274	5.272	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	11689	5.318	ug/l	98
66) Ethyl Benzene	11.965	91	57341	5.053	ug/l	97
67) m/p-Xylenes	12.071	106	43110	9.681	ug/l	97
68) o-Xylene	12.394	106	20187	4.677	ug/l	97
69) Styrene	12.412	104	33711	4.688	ug/l	99
70) Isopropylbenzene	12.694	105	50380	4.908	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	19389	7.945	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	18949m	6.625	ug/l	
73) Bromobenzene	12.982	156	12917	5.063	ug/l	91
74) n-propylbenzene	13.035	91	59601	4.902	ug/l	100
75) 2-Chlorotoluene	13.123	91	38061	4.877	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	39593	4.636	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	6495	5.549	ug/l	95
78) 4-Chlorotoluene	13.223	91	37874	4.899	ug/l	99
79) tert-butylbenzene	13.435	119	31816	4.309	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	38448	4.486	ug/l	98
81) sec-Butylbenzene	13.612	105	48920	4.864	ug/l	99
82) p-Isopropyltoluene	13.723	119	37999	4.499	ug/l	97
83) 1,3-Dichlorobenzene	13.729	146	24271	5.185	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	24573	5.276	ug/l	99
85) n-Butylbenzene	14.053	91	34704	4.908	ug/l	98
86) Hexachloroethane	14.329	117	8365	5.811	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	22335	4.947	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	4038	7.857	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	12402	6.563	ug/l	99
90) Hexachlorobutadiene	15.494	225	3815	4.711	ug/l	97
91) Naphthalene	15.635	128	44237	6.710	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	12402	6.563	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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